Index to Authors

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In abstracts of patents only the names of firms have been given and the abstracts have been indexed under these names. Where two firms have jointly taken out a patent, or where a paper has two or more authors, all the names have been included in the index. Names beginning with de, la, le, ter, van, von, etc. are indexed under the surname.

Abbreviations of Names of Firms, etc.

The abbreviations listed below have been used in the *Journal*.

AAP	Koppers Co. Inc.
AATCC	American Association of Textile Chemists and Colorists
Acna	Aziende Colori Nazionali Affini
BASF	Badische Anilin- & Soda-Fabrik A.G.
CCC	American Cyanamid Co.
CFM	Cassella Farbwerke Mainkur A.G.
CIBA	CIBA Ltd
Col.	Columbian Carbon Co.
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DH...	Durand & Huguenin S.A.
DuP	E.I. du Pont de Nemours & Co. Inc.
FBy	Farbenfabriken Bayer A.G.
FH	Farbwerke Hoechst A.G.
Fran	Française des Matières Colorantes S.A.
G	General Aniline & Film Corpn
GS	G. Siegle & Co. G.m.b.H.
Gy	Geigy, J. R., A.G.
HH	Hardman & Holden Ltd
HWL	Hickson & Welch Ltd
IC	Interchemical Corpn
ICI...	Imperial Chemical Industries Ltd
ICI (O)	ICI (Organics) Inc.
LBH	L. B. Holliday & Co. Ltd
LT	Laporte Titanium Ltd
MCI	Mitsubishi Chemical Industries Ltd
MDW	Mitsui Chemical Industry Co. Ltd
MMM	Minnesota Mining & Manufacturing Corpn
NL...	National Lead Co.
NSK	Sumitomo Chemical Co. Ltd
Rhône Poulenc ...	Société des Usines Chimiques Rhône-Poulenc
S	Sandoz A. G.
Vond	N.V. Fabriek von Chemische Production, Vondelingenplaat
YDC	Yorkshire Dyeware & Chemical Co. Ltd

Symbols used in Index

The following symbols have been added, where appropriate, after the names of authors.

C	Communication
Corr	Correspondence
EPMT	Explanatory Paper on Modern Theory
N	Note
O	Obituary Notice
P	Proceedings
PC	Pattern Cards
R	Book Review
RP	Review Paper

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Anal. Chem.	Analytical Chemistry	American Chemical Society, 20th and Northampton Streets, Easton, Pa., U.S.A.
Angew. Chem.	Angewandte Chemie	Verlag Chemie G.m.b.H., Pappelallee 3, Weinheim/Bergstrasse, Germany.
Annalen	Liebig's Annalen der Chemie	
Australian J. Biol. Sci.	Australian Journal of Biological Sciences	Commonwealth Scientific and Industrial Research Organisation, 314 Albert Street, East Melbourne C2, Victoria, Australia.
Biochem. J.	Biochemical Journal	Cambridge University Press, Bentley House, 200 Euston Road, London N.W.1.
Bull. Chem. Soc. Japan	Bulletin of the Chemical Society of Japan	5, 1-Chome, Kanda-Surugadai, Chiyoda-ku, Tokyo, Japan.
Bull. Inst. Text. France	Bulletin de l'Institut Textile de France	59 Rue de la Faisanderie, Paris (16e), France.
Bull. Text. Res. Inst. Japan	Bulletin of the Textile Research Institute	4 Sawatari, Kanagawa, Yokohama, Japan.
Bumazh. prom.	Bumazhnaya Promyshlennost'	State Committee for Forest, Cellulose, Paper and Wood Processing Industries, Moscow K-12, ul. 25 Oktyabrya 8, U.S.S.R.
Canadian Textile J.	Canadian Textile Journal	Canadian Textile Journal Publishing Co. Ltd, 4795 St Catherine Street West, Westmount, Montreal 6, Quebec, Canada.
Chem. Abs.	Chemical Abstracts	American Chemical Society, 1155 16th Street, N.W., Washington D.C. 20036, U.S.A.
Chem. Communs.	Chemical Communications	The Chemical Society, Burlington House, Piccadilly, London W.1.
Chem. Ber.	Chemische Berichte	Verlag Chemie G.m.b.H., Pappelallee 3, Weinheim/Bergstrasse, Germany.
Chem. and Ind.	Chemistry and Industry	The Society of Chemical Industry, 14 Belgrave Square, London S.W.1.
Chem. in Britain	Chemistry in Britain	The Chemical Society, Burlington House, Piccadilly, London W.1. The Royal Institute of Chemistry, 30 Russell Square, London W.C.1.
Chemiefasern	Chemiefasern	Deutscher Fachverlag m.b.H., Frankfurt/Main, Freiherr-vom-Stein-Strasse 7, Germany.
Collect. Czech. Chem. Communs	Collection of Czechoslovak Chemical Communications	Czechoslovak Academy of Sciences, Institute of Organic Chemistry and Biochemistry, Na cvičišti 2, Prague 6.
Color Engng.	Color Engineering	Kinelow Publishing Co. Inc., 2 John Street, New York 38, N.Y., U.S.A.
Deutsche Farben-Zeitschrift	Deutsche Farben-Zeitschrift	Wissenschaftliche Verlag G.m.b.H., Stuttgart N, Birkenwaldstrasse 44, Germany.
Die Farbe	Die Farbe	Musterschmidt-Verlag, 34 Göttingen, Turmstrasse 7, Postfach 421, Germany.
Doklady Akad. Nauk S.S.S.R.	Doklady Akademii Nauk S.S.S.R.	Academy of Sciences of the U.S.S.R., Moscow, K-62, Podsosenskil pereulok 21, U.S.S.R.
Dyer	The International Dyer, Textile Printer, Bleacher and Finisher	Harlequin Press, Grand Buildings, Trafalgar Square, London W.C.2.
Endeavour	Endeavour	Imperial Chemical Industries Ltd, Millbank, London S.W.1.
Faserforsch. und Textiltech.	Faserforschung und Textiltechnik	Akademie-Verlag G.m.b.H., 108 Berlin, W.8 Leipziger Strasse 3–4, Germany.
Galaxia	Galaxia	Asociación Química Textil Argentina, Bulnes 1425, Buenos Aires, Argentina.
Helv. chim. Acta	Helvetica chimica Acta	Verlag Helvetica Chimica Acta, 4000 Basle 7, Switzerland.
Hungarian Tech. Abstracts	Hungarian Technical Abstracts	Hungarian Technical Abstracts, P.O. Box 12, Budapest 8, Hungary.
Ind. Eng. Chem.	Industrial and Engineering Chemistry	American Chemical Society, 1155 16th Street, N.W., Washington D.C., 20036, U.S.A.
Indian Textile J.	Indian Textile Journal	The Indian Textile Journal Pte. Ltd, "Surya Mahal", Military Square, Fort, Bombay 1, India.
Izvestiya Akad. Nauk S.S.S.R., ser. khim.	Izvestiya Akademii Nauk S.S.S.R.	Academy of Sciences of the U.S.S.R., Moscow, Leninskil prospekt 47, U.S.S.R.
J. Amer. Chem. Soc.	Journal of the American Chemical Society	1155 16th Street, N.W., Washington D.C., 20036, U.S.A.
J. Amer. Leather Chem. Assocn	Journal of the American Leather Chemists' Association	228 North Green Street, Easton, Pennsylvania, U.S.A.
J. Appl. Chem.	Journal of Applied Chemistry	Society of Chemical Industry, 14 Belgrave Square, London S.W.1.
J. Applied Polymer Sci.	Journal of Applied Polymer Science	Interscience Publishers Ltd, 88–90 Chancery Lane, London W.C.2.
J. Biol. Chem.	Journal of Biological Chemistry	Mount Royal and Guildford Avenues, Baltimore 2, Maryland, U.S.A.
J.C.S., C Organic	Journal of the Chemical Society (C Organic)	Burlington House, London W.1.
J. Chem. Phys.	Journal of Chemical Physics	American Instituteof Physics, Lancaster, Pennsylvania, U.S.A.
J. Chromatography	Journal of Chromatography	Elsevier Publishing Co., 110–112 Spuistraat, Amsterdam, Holland.
J. Indian Chem. Soc.	Journal of the Indian Chemical Society	92 Acharya Prafulla Chandra Road, Calcutta 9, India.
J. Oil Col. Chem. Assocn	Journal of the Oil and Colour Chemists' Association	Wax Chandlers' Hall, Gresham Street, London E.C.2.
J. Opt. Soc. Amer.	Journal of the Optical Society of America	American Institute of Physics, Prince and Lemon Streets, Lancaster, Pennsylvania, U.S.A.
J. Org. Chem.	Journal of Organic Chemistry	American Chemical Society, 20th and Northampton Streets, Easton, Pa., U.S.A.
J. Paint Technology	Journal of Paint Technology (Formerly Official Digest, Journal of Paint Technology and Engineering)	121 South Broad Street, Philadelphia 7, Pa.19107 U.S.A.
J. Physical Chem.	Journal of Physical Chemistry	American Chemical Society, 20th and Northampton Streets, Easton Pa., U.S.A.
J. Plastics Inst.	Transactions and Journal, The Plastics Institute	6 Mandeville Place, London W.1.
J. Polymer Sci.	Journal of Polymer Science	Interscience Publishers Inc., 250 Fifth Avenue, New York 1, N.Y., U.S.A.
J. Res. Nat. Bur. Stand.	Journal of Research of the National Bureau of Standards	Superintendent of Documents, U.S. Government Printing Office, Washington D.C., 20402, U.S.A.
J. Soc. Fiber Sci. Technol. Japan	Journal of the Society of Fiber Science and Technology, Japan (Sen-i Gakkaishi)	Sen-i Gakkai, c/o Tokyo Institute of Technology, Ookayama, Meguro-ku, Tokyo, Japan.
J. Soc. Leather Trades Chem.	Journal of the Society of Leather Trades' Chemists	52 Crouch Hall Lane, Redbourn, Herts.
J. Textile Inst.	Journal of the Textile Institute	10 Blackfriars Street, Manchester 3.

List of Periodicals Abstracted — *continued*

Abbreviated Title	Journal	Address of Publisher
Khim. Volok.	Khimicheskie Volokna	State Committee of Chemical and Oil Industry, Moscow, Krivokolennyi pereulok d.12, U.S.S.R.
Kolloid. zhur.	Kolloidnŷi zhurnal (Colloid Journal of the U.S.S.R.)	Academy of Sciences of the U.S.S.R., Moscow, Shubinskiipereulok 10, U.S.S.R.
Kolor. Ertesito	Kolorisztikai Értesitó	Központi Kolorisztikai Kutató Laboratórium, Budapest 62, Postafiók 182
Makromol. Chem.	Die Makromolekulare Chemie	Dr Alfred Hüthig Verlag, G.m.b.H., Wilckenstr. 3, Heidelberg, Germany.
Melliand Textilber.	Melliand Textilberichte	Verlag Melliand Textilberichte KG, 69 Heidelberg, Rohrbacher Str. 76, Germany.
Mh. Chem.	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften	Springer-Verlag, Wien I, Mölkerbastei 5, Austria.
Nature	Nature	Macmillan & Co. Ltd, St. Martin's Street, London W.C.2.
Paint, Oil & Col. J.	Paint, Oil and Colour Journal	Morris Ashby Ltd, 10 Philpot Lane, London E.C.3.
Paint Tech.	Paint Technology	Sawell Publications Ltd, 4 Ludgate Circus, London E.C.4.
Pakistan J. Scientific and Industrial Res.	Pakistan Journal of Scientific and Industrial Research	39 Garden Road, Karachi 3, Pakistan.
Polymer Engng Sci. (formerly SPE Trans.)	Polymer Engineering and Science	Society of Plastics Engineers Inc., 65 Prospect Street, Stamford, Connecticut 06902, U.S.A.
Polish Tech. Abs.	Polish Technical Abstracts	Warsaw, Aleje Niepodleglosci 188, Poland.
Proc. Chem. Soc.	Proceedings of the Chemical Society	Burlington House, London W.1.
Proc. I.R.I.	Transactions and Proceedings Institution of the Rubber Industry	4 Kensington Palace Gardens, London W.8.
Proc. Roy. Soc.	Proceedings of the Royal Society	Burlington House, London W.1.
Rec. Trav. chim.	Recueil des Travaux chimiques des Pays-Bas	Burnierstraat 1, 's-Gravenhage, Holland.
Rept. Govt. Chem. Ind. Research Inst. Tokyo	Reports of the Government Chemical Industrial Research Institute, Tokyo	1-chome, Hon-machi, Shibuya-ku, Tokyo, Japan.
Rev. Roumaine Chim.	Revue Roumaine de Chimie	Academia Republicii Populare Romine, Str. Dumbrova Rosie 23 Bucharest 9, Roumania.
Skinner's Rec.	Skinner's Record of the Man-made Fibres Industry	St. James House, 44 Brazennose Street, Manchester 2.
Stain Tech.	Stain Technology	Williams & Wilkins Co., Baltimore 2, Maryland, U.S.A.
Svensk Papperstidning	Svensk Papperstidning	Villagatan 1, Stockholm O. Sweden.
Talanta	Talanta	Pergamon Press, Headington Hill Hall, Oxford.
Tappi	Tappi	Technical Association of Pulp and Paper Industry, 360 Lexington Avenue, New York, N.Y. 10017, U.S.A.
Teintex	Teintex, incorporating Revue Générale des Matières Colorantes	60 rue Richelieu, Paris (2e), France.
Teinture et Apprêts	Teinture et Apprêts	Société d'Editions Techniques de la Manutention Textile, 12 Rue d'Anjou, Paris (8e), France.
Tekhnol, tekstil. Prom.	Izvestiya výsshikh uchebnŷkh zavedenii, Tekhnologiya tekstil'noi promŷshlennosti (Technology of the Textile Industry of the U.S.S.R.)	Ivanova, ulitsa Fridrikha Engel'sa 21, U.S.S.R.
Tekstil. prom.	Tekstil'naya promŷshlennost' (Textile Industry of the U.S.S.R.)	Gizlegprom, Moscow, Tsentr, ulitsa Kirova 39, 6-1 etazh Komnata 620, U.S.S.R.
Tetrahedron	Tetrahedron	Pergamon Press, Headington Hill Hall, Oxford.
Tetrahedron Letters	Tetrahedron Letters	Pergamon Press, Headington Hill Hall, Oxford.
Tex	De Tex	Uitg. C. Misset N.V., Doetinchem, Holland.
Textile Digest	Textile Digest	V. D. Limaye, Indian Printing Works, 9 Bakehouse Lane, Fort, Bombay, India.
Text. Inst. & Ind.	The Textile Institute and Industry	10 Blackfriars Street, Manchester 3.
Text. Manuf.	Textile Manufacturer	31 King Street West, Manchester 3.
Text. Rec.	Textile Recorder	Harlequin Press Ltd, Old Colony House, South King Street, Manchester 2.
Text. Research J.	Textile Research Journal	Prince and Lemon Streets, Lancaster, Pennsylvania, U.S.A.
Textil Praxis	Textil Praxis	Konradin-Verlag Robert Kohlhammer G.m.b.H., Stuttgart 1, Postfach 625, Germany.
Textilveredlung	Textilveredlung, (Formerly S.V.F. Fachorgan für Textilveredlung und Textil-Rundschau)	Der Verlag, Postfach 207, CH-4001 Basle, Switzerland
Textile J. of Australia	Textile Journal of Australia	142 Clarence Street, Sydney, N.S.W., Australia.
Tinctoria	Tinctoria	Via Negroli 51, Milan, Italy.
Trans. Faraday Soc.	Transactions of the Faraday Society	Aberdeen University Press Ltd, 6 Upper Kirgkate, Aberdeen, Scotland.
Trans. I.R.I.	Transactions and Proceedings Institution of the Rubber Industry	4 Kensington Palace Gardens, London W.8.
Trans. Inst. Metal Fin.	Transactions of the Institute of Metal Finishing	178 Goswell Road, London E.C.1.
Trans. Plastics Inst.	Transactions and Journal The Plastics Institute	6 Mandeville Place, London W.1.
Ukrain. khim. zhur.	Ukrainskiĭ khimicheskiĭ zhurnal (Ukrainian Chemical Journal)	Kiev, 30 ulitsa Leontovicha 9a, U.S.S.R.
Vysokomol. Soed.	Vysokomolekularnye Soedineniya	Academy of Sciences of the U.S.S.R., Moscow, Kuznetskii Most, d.9/10, U.S.S.R.
Wool Sci. Rev.	Wool Science Review	International Wool Secretariat, Dorland House, 18/20 Regent Street London S.W.1.
Zesz. Nauk. Politech. Lódz	Zeszyty Naukowe Politechniki Lódzkiej	Lódz, Gdanska 155, Poland.
Zhur. obshch. khim.	Zhurnal obshchei khimii (Journal of General Chemistry of the U.S.S.R.)	Academy of Sciences of the U.S.S.R., Leningrad B-164, Mendeleevskaya liniya, U.S.S.R.
Zhur. priklad. khim.	Zhurnal prikladnio khimii (Journal of Applied Chemistry of the U.S.S.R.)	Academy of Sciences of the U.S.S.R., Leningrad B-164, Mendeleevskaya liniya, U.S.S.R.

ABBREVIATIONS AND SYMBOLS

used in *The Journal of the Society of Dyers and Colourists*

No distinction is made in abbreviations between singular and plural

In special cases abbreviations and symbols other than those in the list may be used, but as far as possible they will be as given either in standard English dictionaries or in *British Standard* 1991: Part 1:1954

absolute	abs.
acetyl	Ac
alkyl radical (in chemical formula)	Alk
alternating current	a.c.
ampère	A
Angström unit	Å
anhydrous	anhyd.
approximate, -ly	approx., ca
aqueous	aq.
aryl radical (in chemical formula)	Ar
asymmetric (applied to organic compounds)	*as-*
atmosphere (pressure unit)	atm.
atomic	at.
atomic weight	at. wt
Baumé	Bé
benzoyl	Bz
boiling point	b.p.
British Patent	*BP*
British thermal unit	B.t.u.
butyl (normal)	Bu^n
butyl (iso)	Bu^i
butyl (tertiary)	Bu^t
calculated	calc.
calorie	cal
Celsius (centigrade)	C
centi	c
compound	cpd
concentrated	conc.
concentration	concn
configuration (carbohydrates and amino acids)	D-, L-
constant	const.
containing more than *n* carbon atoms	containing $> n$ C
corrected	corr.
crystal, -line, -lised (adjective)	cryst.
cubic centimetre (etc.)	cm^3 (etc.)
curie	c
decomposition	decomp.
degree	deg
degree of polymerisation	DP
degree of substitution	DS
density	ρ
derivative	deriv.
dextrorotatory	*dextro.* (+)-
dilute	dil.
direct current	d.c.
distil, -led	dist.
electromotive force	e.m.f.
equation	eqn
equimolecular	equimol.
equivalent	equiv.
ethyl	Et
Fahrenheit	F
foot	ft
freezing point	f.p.
gallon (Imperial)	gal
gallon (U.S.A.)	gal(U.S.A.)
German Patent	*GP*
gram	g
gram-molecule	mole
greater than	>
halogen (in chemical formula)	Hal
horse power	h.p.
hour	h
hydrogen ion concentration (negative logarithm)	pH
inch	in.
infrared	i.r.
inorganic	inorg.
insoluble	insol.
kilocalorie	kcal
kilogram	kg
laevorotatory	*laevo*, (—)-
less than	<
litre	l.
logarithm (decadic)	log
logarithm (natural)	ln
maximum	max.
melting point	m.p.
meta-	*m-*
methyl	Me
metre	m
microgram	μg
micron	μ
milli-	m
millilitre	ml
minimum	min.
minute	min
molar (concentration)	M
molecular, -e	mol.
molecular weight	mol. wt
normal (concentration)	N
normal (organic compound)	n-
not greater than	≯
not less than	≮
organic	org.
ortho-	*o-*
ounce	oz
para-	*p-*
parts per million	p.p.m.
Patent	*P*
phenyl	Ph
poise	P
potential difference	p.d.
pound	lb
precipitate	ppt.
precipitated	pptd
precipitation	pptn
proportional to	∝
propyl (normal)	Pr^n
propyl (iso)	Pr^i
qualitative(ly)	qual.
quantitative(ly)	quant.
racemic (organic chemistry)	*r-*
recrystallised	recryst.
refractive index	*n*
relative humidity	r.h.
revolutions per minute	rev/min
röntgen	r
saturate(d)	sat.*
second	s
secondary (organic compound)	s-
soluble	sol.
solution	soln
specific	sp.
specific gravity	sp. gr.
square in. (etc.)	in^2 (etc.)
stokes	S
substituted	subst.*
substitution on nitrogen, oxygen, etc.	*N-*, *O-*, etc.
symmetrical (organic compound)	*s-*
temperature	temp.
tertiary- (organic compound)	t-
turns per inch	turns/in.
Twaddell	Tw
United States Patent	*USP*
ultraviolet	u.v.
unsaturated	unsat.*
unsubstituted	unsubst.*
viscosity	η
volt	V
volume	vol.
watt	W
wavelength	λ
weight	wt
yard	yd

* Only in describing general formulae in the Abstracts Section

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